

Title (en)
AIR SPRING

Title (de)
LUTFEDER

Title (fr)
RESSORT PNEUMATIQUE

Publication
EP 4019303 B1 20230823 (DE)

Application
EP 21210018 A 20211123

Priority
DE 102020216447 A 20201222

Abstract (en)

[origin: CN217606084U] The utility model relates to a device for measuring distance in a non-contact mode. The basic aim of the utility model is to improve the device in such a way that, under each movement condition of the air spring, a reliable reflection of sound waves to the sound wave transducer, which is as strong as possible for the evaluation of distance measurements, is given, which device is also suitable for the requirements in the event of contact with impact dampers. This object is achieved in that the reflector part has a reflecting surface composed of reflectors, the shape of the reflecting surface being composed of substantially longitudinal half truncated cones arranged in an annular shape and in contact with each other, the reflectors also referred to as truncated cone sectors, the utility model is characterized in that the reflecting surface is provided with a plurality of truncated cone sectors, and the truncated cone sectors are radially oriented and have a taper such that the tops of all truncated cone sectors protruding from the reflecting surface are tangent to an imaginary common plane and intersect in the process in such a way that the sector angle of each truncated cone sector formed in the process is always less than 180 degrees.

IPC 8 full level

B60G 17/019 (2006.01); **G01B 17/00** (2006.01); **G01S 7/521** (2006.01); **G01S 15/08** (2006.01); **G01S 15/88** (2006.01)

CPC (source: EP)

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